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	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 6002446 A	19991214	26	Method and apparatus for upscaling an image	348/581
2	☐	☐	US 5901248 A	19990504	30	Programmable architecture and methods for motion estimation	382/236
3	☐	☐	US 5739867 A	19980414	26	Method and apparatus for upscaling an image in both horizontal and vertical directions	348/581
4	☐	☐	US 5706415 A	19980106	42	Method and apparatus for distributed interpolation of pixel shading parameter values	345/426
5	☐	☐	US 5594813 A	19970114	30	Programmable architecture and methods for motion estimation	382/236
6	☒	☐	US 5517603 A	19960514	42	Scanline rendering device for generating pixel values for displaying three-dimensional graphical images	345/426
7	☒	☐	US 5502462 A	19960326	92	Display list management mechanism for real-time control of by-the-line modifiable video display system	345/507

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	345/127 ; 345/131 ; 348/445 ; 348/448		Eglit, Alexander J.	☒	☐	☐	☐	☐	☐	☐
2			Fandrianto, Jan , et al.	☒	☐	☐	☐	☐	☐	☐
3	345/127 ; 345/131 ; 348/441		Eglit, Alexander J.	☒	☐	☐	☐	☐	☐	☐
4	345/432 ; 345/505		Kelley, Michael , et al.	☒	☐	☐	☐	☐	☐	☐
5	348/415 ; 348/416		Fandrianto, Jan , et al.	☒	☐	☐	☐	☐	☐	☐
6	345/422 ; 345/502 ; 345/507		Kelley, Michael , et al.	☐	☐	☐	☐	☐	☐	☐
7	345/199		Mical, Robert J. , et al.	☐	☐	☐	☐	☐	☐	☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
8	☒	☐	US 5345541 A	19940906	43	Method and apparatus for approximating a value between two endpoint values in a three-dimensional image rendering device	345/426
9	☒	☐	US 5337089 A	19940809	15	Apparatus for converting a digital video signal which corresponds to a first scan line format into a digital video signal which corresponds to a	348/446
10	☒	☐	US 5307449 A	19940426	43	Method and apparatus for simultaneously rendering multiple scanlines	345/419
11	☒	☐	US 4864398 A	19890905	24	Motion vector processing in digital television images	348/443
12	☒	☐	US 4858005 A	19890815	15	System for encoding broadcast quality television signals to enable transmission as an embedded code	348/415

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
8	345/427 ; 708/290		Kelley, Michael , et al.	☐	☐	☐	☐	☐	☐	☐
9	348/448 ; 348/450		Fisch, Eberhard	☐	☐	☐	☐	☐	☐	☐
10	345/426 ; 345/433 ; 345/443		Kelley, Michael , et al.	☐	☐	☐	☐	☐	☐	☐
11	348/416 ; 348/699		Avis, Richard J. A. , et al.	☐	☐	☐	☐	☐	☐	☐
12			Lodge, Nicolas K.	☐	☐	☐	☐	☐	☐	☐

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#	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	☐	☐	US 6005979 A	19991221	21	System of data compression by subsampling, and preferably adaptive trim accounting, for sending images to a printer	382/232	382/245 382/300		Chang, Michael M. , et al.	☒	☐	☐	☐	☐	☐	☐
2	☐	☐	US 6005916 A	19991221	199	Apparatus and method for imaging with wavefields using inverse scattering techniques	378/87	378/98 600/425 600/437		Johnson, Steven A. , et al.	☒	☐	☐	☐	☐	☐	☐
3	☐	☐	US 6005625 A	19991221	50	Method and system for processing data on motion pictures by motion compensation combined with image segmentation	348/416	348/699 382/236		Yokoyama, Yutaka	☒	☐	☐	☐	☐	☐	☐
4	☐	☐	US 5990955 A	19991123	27	Dual encoding/compression method and system for picture quality/data density enhancement	348/390	348/404		Koz, Mark	☒	☐	☐	☐	☐	☐	☐
5	☐	☐	US 5973743 A	19991026	14	Mode coding method and apparatus for use in an interlaced shape coder	348/416	348/402 348/413 348/699 382/243 358/261.2		Han, Seok-Won	☒	☐	☐	☐	☐	☐	☐
6	☐	☐	US 5960117 A	19990928	14	Method of adaptive arithmetic encoding/decoding according to JBIG standard	382/239	358/426 358/430 358/433 382/232 382/233 382/238 382/247		Hiratani, Yutaka	☒	☐	☐	☐	☐	☐	☐
7	☐	☐	US 5933105 A	19990803	12	Context-based arithmetic encoding/decoding method and apparatus	341/107	341/50 348/416		Cho, Sung-Ryul	☒	☐	☐	☐	☐	☐	☐
8	☐	☐	US 5920477 A	19990706	94	Human factored interface incorporating adaptive pattern recognition based controller apparatus	382/181	382/190 700/83		Hoffberg, Steven M. et al.	☒	☐	☐	☐	☐	☐	☐
9	☐	☐	US 5903454 A	19990511	328	Human-factored interface corporating adaptive pattern recognition based controller apparatus.	700/83	382/155 700/45 700/86		Hoffberg, Linda Irene , et al.	☒	☐	☐	☐	☐	☐	☐
10	☐	☐	US 5901246 A	19990504	91	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system.	382/209			Hoffberg, Steven M. , et al.	☒	☐	☐	☐	☐	☐	☐
11	☐	☐	US 5883986 A	19990316	69	Method and system for automatic transcription correction	382/310	382/155 382/159 382/161 382/215 382/226 382/230		Kopec, Gary E. , et al.	☒	☐	☐	☐	☐	☐	☐
12	☐	☐	US 5875108 A	19990223	110	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system.	700/17	382/181 382/190 700/83		Hoffberg, Steven M. , et al.	☒	☐	☐	☐	☐	☐	☐
13	☐	☐	US 5867600 A	19990202	15	Image coding method and system for providing reduced bit rate arithmetic codes.	382/247	358/430		Hongu, Takahiro	☒	☐	☐	☐	☐	☐	☐
14	☐	☐	US 5867386 A	19990202	78	Morphological pattern recognition based controller system	700/83	382/190 382/203 382/209		Hoffberg, Steven M. , et al.	☒	☐	☐	☐	☐	☐	☐
15	☐	☐	US 5864329 A	19990126	25	Device and method for digital picture universal multiplication	345/115	345/113 382/299		Hirokawa, Nobuyuki	☒	☐	☐	☐	☐	☐	☐
16	☐	☐	US 5859604 A	19990112	44	Merged VLSI implementation of hardware optimized Q-Coder and software optimized QM-Coder	341/107	341/106 341/50 341/51 341/61 341/67		Slattery, Michael John , et al.	☒	☐	☐	☐	☐	☐	☐
17	☐	☐	US 5857035 A	19990105	13	Arithmetic coding compressor for encoding multiple bit values	382/247	382/232		Rust, Robert A.	☒	☐	☐	☐	☐	☐	☐

#	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
18	☐	☐	US 5850352 A	19981215	57	Immersive video, including video hypermosaicing to generate from multiple video views of a scene a three-dimensional video mosaic from which diverse virtual video scene images are synthesized, including panoramic, scene interactive and	345/419	348/13		Moezzi, Saied , et al.	☒	☐	☐	☐	☐	☐	☐
19	☐	☐	US 5848198 A	19981208	58	Method of and apparatus for analyzing images and deriving binary image representations	382/276			Penn, Alan Irvin	☒	☐	☐	☐	☐	☐	☐
20	☒	☐	US 5835034 A	19981110	30	System and method for lossless image compression	341/65			Seroussi, Gadiel , et al.	☐	☐	☐	☐	☐	☐	☐
21	☒	☐	US 5832115 A	19981103	18	Ternary image templates for improved semantic compression	382/199	382/242, 382/243		Rosenberg, Jonathan David	☐	☐	☐	☐	☐	☐	☐
22	☒	☐	US 5774357 A	19980630	97	Human factored interface incorporating adaptive pattern recognition based controller apparatus	713/600	348/110, 348/27, 348/734, 395/559, 712/240, 712/245, 345/441		Hoffberg, Steven M. , et al.	☐	☐	☐	☐	☐	☐	☐
23	☒	☐	US 5774133 A	19980630	139	Computer system with improved pixel processing capabilities	345/505	345/501, 345/503, 345/522, 341/65		Neave, John Walter , et al.	☐	☐	☐	☐	☐	☐	☐
24	☒	☐	US 5764374 A	19980609	31	System and method for lossless image compression having improved sequential determination of golomb parameter	358/427	358/261.2, 358/426, 358/470, 382/238, 382/239, 382/252		Seroussi, Gadiel , et al.	☐	☐	☐	☐	☐	☐	☐
25	☒	☐	US 5680129 A	19971021	30	System and method for lossless image compression	341/65			Weinberger, Marcelo , et al.	☐	☐	☐	☐	☐	☐	☐
26	☒	☐	US 5640159 A	19970617	14	Quantization method for image data compression employing context modeling algorithm	341/51			Furlan, Gilbert , et al.	☐	☐	☐	☐	☐	☐	☐
27	☒	☐	US 5485279 A	19960116		Methods and systems for encoding and decoding picture signals and related picture-signal records	348/411	348/409, 386/116, 386/123		Yonemitsu, Jun , et al.	☐	☐	☐	☐	☐	☐	☐
28	☒	☐	US 5471206 A	19951128		Method and apparatus for parallel decoding and encoding of data	341/51	341/107		Allen, James D. et al.	☐	☐	☐	☐	☐	☐	☐
29	☒	☐	US 5442458 A	19950815		Method and associated apparatus for encoding bitplanes for improved coding efficiency	358/426	358/261.3, 358/262.1, 358/432		Rabbani, Majid , et al.	☐	☐	☐	☐	☐	☐	☐
30	☒	☐	US 5422734 A	19950606		Method for arithmetically encoding half-tone image in image processing system	358/429	358/261.2, 358/426, 358/430, 382/232, 439/225		Kang, Ku-Soo	☐	☐	☐	☐	☐	☐	☐
31	☒	☐	US 5414423 A	19950509		Stabilization of probability estimates by conditioning on prior decisions of a given context	341/107	341/51		Pennebaker, William B.	☐	☐	☐	☐	☐	☐	☐
32	☒	☐	US 5402171 A	19950328		Electronic still camera with improved picture resolution by image shifting in a parallelogram arrangement	348/219	250/208.1, 348/279, 349/280, 455/344, 348/17		Tagami, Yoshitomo , et al.	☐	☐	☐	☐	☐	☐	☐
33	☒	☐	US 5392223 A	19950221		Audio/video communications processor	709/218	700/15, 700/17, 709/233		Caci, Joseph C.	☐	☐	☐	☐	☐	☐	☐

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34	☒	☐	US 5390259 A	19950214		Methods and apparatus for selecting semantically significant images in a document image without decoding image context	382/173	382/203; 382/224		Withgott, M. Margaret , et al.	☐	☐	☐	☐	☐	☐	☐	☐
35	☒	☐	US 5381145 A	19950110		Method and apparatus for parallel decoding and encoding of data	341/107	341/51; 348/397; 358/426		Allen, James D. , et al.			☐				☐	☐
36	☒	☐	US 5341142 A	19940823		Target acquisition and tracking system	342/64	244/3.15; 244/3.16; 244/3.17; 244/3.19; 342/52; 342/53; 342/62; 342/63; 342/67; 348/390		Reis, James J. , et al.	☐	☐	☐	☐	☐	☐	☐	☐
37	☒	☐	US 5339164 A	19940816		Method and apparatus for encoding of data using both vector quantization and runlength encoding and using adaptive runlength encoding	358/261.1	348/441; 358/261.3; 358/430; 382/234; 382/245; 382/253		Lim, Jae S.			☐				☐	☐
38	☒	☐	US 5313204 A	19940517		Encoding and decoding devices with predictor and detector	341/107	341/51		Semasa, Takayoshi , et al.	☐	☐	☐	☐	☐	☐	☐	☐
39	☒	☐	US 5297220 A	19940322		image processing system for image compression and decompression	382/247	358/430; 382/238		Nomizu, Yasuyuki	☐	☐	☐	☐	☐	☐	☐	☐
40	☒	☐	US 5287537 A	19940215		Distributed processing system having plural computers each using identical retaining information to identify another computer for	712/29	364/230.3; 364/281.3; 364/281.8; 364/DIG 1		Newmark, Rona J. , et al.			☐				☐	☐
41	☒	☐	US 5231487 A	19930727		Storage of video signals	348/391	348/424; 348/472; 386/21; 386/33; 386/40		Hurley, Terence R. , et al.			☐				☐	☐
42	☒	☐	US 5223926 A	19930629		Compression of video signals	348/396	348/398; 382/250		Stone, Jonathan J. et al.	☐	☐	☐	☐	☐	☐	☐	☐
43	☒	☐	US 5214502 A	19930525		Compression of video signals	348/472	348/398		Stone, Jonathan J. et al.	☐	☐	☐	☐	☐	☐	☐	☐
44	☒	☐	US 5142283 A	19920825		Arithmetic compression coding using interpolation for ambiguous symbols	341/107	341/106; 341/109; 706/900		Chevion, Dan S. , et al.			☐				☐	☐
45	☒	☐	US 5020121 A	19910528		Neighborhood block prediction bit compression	382/238	358/261.3; 382/243; 400/110		Rosenberg, Charles J.			☐				☐	☐
46	☒	☐	US 4977521 A	19901211		Film noise reduction by application of bayes theorem to positive/negative film	382/254	358/522; 430/359		Kaplan, Martin C.			☐				☐	☐
47	☒	☐	US 4870695 A	19890926		Compression and de-compression of column-interlaced, row-interlaced graylevel digital images	382/238	348/409		Gonzales, Cesar A. , et al.			☐				☐	☐
48	☒	☐	US 4785356 A	19881115		Apparatus and method of attenuating distortion introduced by a predictive coding image compressor	358/430	348/409; 358/464		Gonzales, Cesar A. , et al.			☐				☐	☐
49	☒	☐	US 4725885 A	19880216		Adaptive graylevel image compression system	348/411	375/241; 375/244; 341/106		Gonzales, Cesar A. , et al.	☐	☐	☐	☐	☐	☐	☐	☐
50	☒	☐	US 4092665 A	19780530		Method and means for extracting variable length data from fixed length bytes	341/63	358/261.4; 365/230.03; 365/238.5; 365/239; 370/477		Saran, Amitabh			☐				☐	☐

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	219	interpolat$3 same context	USPAT	2000/02/19 12:31		
2	BRS	L2	12	1 and (horizontal$3 adj3 interpolat$3) and (vertical$3 adj interpolat$3)	USPAT	2000/02/19 12:34		